

New Program Report

Date Submitted:

04/29/2019

Institution

Ozarks Technical Community College

Site Information

Implementation Date:

8/19/2019 12:00:00 AM

Added Site(s):

Selected Site(s):

Ozarks Technical Community College, 1001 E. Chestnut Expressway, Springfield, MO, 65802

CIP Information

CIP Code:

480503

CIP Description:

A program that prepares individuals to apply technical knowledge and skills to fabricate and modify metal parts in support of other manufacturing, repair or design activities, or as an independent business.

CIP Program Title:

Machine Shop Technology/Assistant

Institution Program Title:

Remanufacturing Technology

Degree Level/Type

Degree Level:

Associate Degree

Degree Type:

Associate in Applied Science

Options Added:

Collaborative Program:

N

Mode of Delivery

Current Mode of Delivery

Classroom

Student Preparation

Special Admissions Procedure or Student Qualifications required:

No special preparation will be required.

Specific Population Characteristics to be served:

n/a



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Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate: Associates degree, industry recognized credential, or equivalent in the field of instruction.

Estimate Percentage of Credit Hours that will be assigned to full time faculty: Estimated percentage of credit hours that will be assigned to full time faculty is 75%.

Expectations for professional activities, special student contact, teaching/learning innovation: Faculty members are required to document twenty hours of professional development on an annual basis. Faculty members are required to be faculty advisors and will advise students who have designated this as their degree option.

Student Enrollment Projections Year One-Five

Year 1	Fuli Time: 11	Part Time: 8	
Year 2	Full Time: 15	Part Time: 11	
Year 3	Full Time: 18	Part Time: 12	Number of Graduates:
Year 4	Full Time: 20	Part Time: 14	
Year 5	Full Time: 20	Part Time: 15	Number of Graduates: 45

Percentage Statement:

90.00

Program Accreditation

Institutional Plans for Accreditation:

Accredited by Automotive Service Excellence and seeking accreditation through the National Institute of Machining Skills.

Program Structure

Total Credits:

64

Residency Requirements:

15 hours of coursework must be completed in residence.

General Education Total Credits:

16

Major Requirements Total Credits:

48

Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
DSL 105	4	Diesel Engine Repair
IST 125	4	Fluid Power
DSL 115	4	Preventative Maintenance
DSL 235	4	Heavy Duty Drives
TEC 285	1	Occupational Seminar



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PMT 225	4 Machining Fundamentals
PMT 125	4 Machining Fundamentals I
DSL 205	4 Advanced Diesel Engines
DSL 150	4 Principles of Remanufacturing
PMT 150	4 Advanced Blueprint Reading and Quality Control
DSL 171	4 Electrical
IST 120	3 Industrial Safety
DSL 232	4 Diagnostic and Repair

Free Elective Credits:

a

Internship or other Capstone Experience:

None

Assurances

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus, CBHE-approved service region or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program within the geographically applicable area.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

Contact Information

First and Last Name: RENEE GRAVES

Email: gravesr@otc.edu Phone: 417-447-8115

Student ID: Catalog: 2019-2020 Academic Catalog and Student Student Name: Handbook Adviser Name: Program: Remanufacturing Technology (A.A.S.) Minimum Credits Required:	Student Name:	Program: Remanufacturing Technology (A.A.S.)
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Remanufacturing Technology (A.A.S.)

AAS Degree: 64 Hours

The Remanufacturing Technology program provides individuals with the knowledge and skills necessary to obtain employment in the remanufacturing industry. Coursework is derived from a variety of disciplines including diesel engine diagnosis and repair, industrial system safety and process, and precision machining fundamentals and operation.

Remanufacturing Technology Program Requirements - 48 Credit Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
DSL-105 Diesel Engine Repair	Credits: 4			
DSL-115 Diesel Preventive Maintenance	Credits: 4			
DSL-150 Principles of Remanufacturing	Credits: 4			
DSL-171 Electrical I	Credits: 4			
DSL-205 Advanced Diesel Engines Prerequisite(s): DSL 105, DSL 115.	Credits: 4			
DSL-232 Diesel Diagnostics & Repair Prerequisite(s): DSL 105, DSL 171 and DSL 205	Credits: 4			
DSL-235 Heavy Duty Drives	Credits: 4			
IST-120 Industrial Safety	Credits: 3			
IST-125 Fluid Power	Credits: 4			
PMT-125 Machining Fundamentals I	Credits: 4	`		
PMT-150 Adv. Blueprint Reading & QC	Credits: 4			
PMT-225 Machining Fundamentals II Prerequisite(s): A grade of "C" or better in PMT 125.	Credits: 4			
TEC-285 Occupational Seminar Prerequisite(s): Minimum of 30 hours toward degree program or advisor's approval.	Credits: 1			

General Education Requirements - 16 Credit Hours

The Missouri Department of Higher Education has identified a common set of general education courses that have been adopted statewide. These courses are called the "CORE 42." CORE 42 courses are guaranteed to transfer to any Missouri public college or university to satisfy general education requirements.

Courses in knowledge areas below, designated with the CORE 42 logo indicates courses in that area have been evaluated and provided a MOTR number for transfer to all Missouri public institutions of higher education.

Courses that do not have this designation may still transfer to public and private colleges and universities in Missouri and elsewhere, but students are encouraged to check the transfer equivalency website of the institution to which they plan to transfer to confirm.

Please refer to the MDHE Core Transfer Curriculum for detailed information on CORE 42 courses.

Mathematical Sciences - 3 Credit Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
MTH-140 Analytic Geometry and Calculus I Prerequisite(s): Grade of "C" or better in MTH 131 or MTH 138 or satisfactory score on the ACT.	Credits: 5			
MTH-141 Analytic Geometry and Calculus II Prerequisite(s): Grade of "C" or better in MTH 140.	Credits: 5			
MTH-210 Statistical Methods Prerequisite(s): Grade of "C" or better in MTH 128 or MTH 130 or satisfactory score on the ACT.	Credits: 3			
MTH-215 Algebraic Structures Prerequisite(s): Grade of "C" or better in MTH 140.	Credits: 3			
MTH-230 Linear Algebra Prerequisite(s): Grade of "C" or better in MTH 141.	Credits: 3			
MTH-240 Analytic Geometry and Calculus III Prerequisite(s): Grade of "C" or better in MTH 141.	Credits: 3			
MTH-241 Differential Equations Prerequisite(s): Grade of "C" or better in MTH 240.	Credits: 3			

MTH-105 Business Math	Credits: 3		
MTH-110 Intermediate Algebra	Credits: 4		
MTH-128 Contemporary Mathematics	Credits: 3		
MTH-128S Cont Mathematics with Support	Credits: 4		
MTH-130 College Algebra	Credits: 3		
MTH-130S College Algebra With Support	Credits: 4		
MTH-131 Trigonometry Prerequisite(s): Grade of "C" or better in MTH 130 or satisfactory score on the ACT.	Credits: 3		
MTH-138 Pre-Calculus Mathematics Prerequisite(s): Grade of "B" or better in MTH 110 or satisfactory score on the ACT.	Credits: 5		
TEC-108 Applied Technical Mathematics	Credits: 3		

Written Communication - 3 Credit Hours



Course Name	Credits:	Term Taken	Grade	Gen Ed
ENG-100 Composition I With Support Prerequisite(s): None	Credits: 5			
or				
ENG-101 Composition I Prerequisite(s): None	Credits: 3			
ENG-102 Composition II Prerequisite(s): ENG 101.	Credits: 3			
ENG-150 Technical Writing Prerequisite(s): ENG 101.	Credits: 3			

Oral Communication - 3 Credit Hours



Course Name	Credits:	Term Taken	Grade	Gen Ed
COM-100 Introduction to Communication	Credits: 3		•	
COM-105 Public Speaking	Credits: 3			
COM-200 Interpersonal Communication Prerequisite(s): Grade of "C" or better in ENG 101.	Credits: 3			

Natural Sciences - 4 Credit Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
BCS-115 Survey of A & P	Credits: 3			
BCS-132 Allied Health Nutrition	Credits: 3			
BCS-165 Human Anatomy	Credits: 4			
BCS-210 Pathophysiology Prerequisite(s): Grade of "C" or better in BCS 165 and BCS 200 and BCS 205.	Credits: 3			
BIO-100 Life Science	Credits: 4			
BIO-105 Environmental Science	Credits: 4			
BIO-135 Nutrition for Living	Credits: 3			
BIO-142 Essential Biology	Credits: 3			
BIO-160 General Biology I	Credits: 4			
CHM-101 Introductory Chemistry	Credits: 4			
CHM-160 General Chemistry I Prerequisite(s): Grade of "C" or better in MTH 110 or higher, or satisfactory score on the ACT.	Credits: 4			
PHY-110 Introduction to Geology	Credits: 4			
PHY-115 Introduction to Astronomy	Credits: 4			

PHY-120 General Physics I Prerequisite(s): Grade of "C" or better in MTH 130 or equivalent (MTH 131 recommended).	Credits: 4		Taken parameters and the second secon
PHY-220 Physics Engrs & Scientists I Prerequisite(s): Grade of "C" or better in MTH 140.	Credits: 5		
TES-140 Technical Physics Prerequisite(s): Grade of "C" or better in TEC 108 or higher	Credits: 4		
CHM-160 General Chemistry I Credits: 4 and			
CHM-161 General Chemistry I Lab Prerequisite(s): Grade of "C" or better in MTH 110 or higher, or satisfactory score on the ACT.	Credits: 1		

Social and Behavioral Sciences - 3 Credit Hours



Course Name	Credits:	Term Taken	Grade	Gen Ed
HST-120 U.S. History I: to 1865	Credits: 3			
HST-130 U.S. History II: 1865-Present	Credits: 3			
PLS-101 American Government and Politics	Credits: 3			

Notes: